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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/773,693	02/02/2001	Katsuhisa Matsuura	Q62933	7884
7	590 03/03/2004		EXAMINER	
Sughrue, Mion, Zinn,			CHIANG, JACK	
MacPeak and S	• • • • • • • • • • • • • • • • • • • •			
2100 Pennsylva	ania Avenue, N.W.		ART UNIT PAPER NUMBER	
Washington, D	OC 20037-3202		2642	9
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Please find below and/or attached an Office communication concerning this application or proceeding.

					
Office Action Summany	Application No. 99/773 693	Applicant(s) Matsuyra e	t al.		
Office Action Summary	Examiner J. C.	hiang 2642	#9		
The MAILING DATE of this communication appears					
Period for Response	7				
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SE MAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE <u>- ブ</u>	MONTH(S) FROM THE			
 Extensions of time may be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. If the period for response specified above is less than thirty (30) days, a If NO period for response is specified above, such period shall, by defau Failure to respond within the set or extended period for response will, by 	response within the statutoult, expire SIX (6) MONTHS	ory minimum of thirty (30) days will be considere 6 from the mailing date of this communication .	ed timely.		
Status	1				
Responsive to communication(s) filed on	1-23				
☐ This action is FINAL.					
 Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935 					
Disposition of Claims					
™ Claim(s) ————————————————————————————————————		is/are pending in the application.			
Of the above claim(s)		is/are withdrawn from considerate	tion.		
□ Claim(s)	is/are allowed.				
☐ Claim(s)————————————————————————————————————	is/are rejected.				
☐ Claim(s)————	is/are objected to.				
□ Claim(s)			ion		
Application Papers		requirement.			
☐ See the attached Notice of Draftsperson's Patent Drawing	Review, PTO-948.				
☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.					
☐ The drawing(s) filed on is/are objected to by the Examiner.					
☐ The specification is objected to by the Examiner.					
☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. § 119 (a)-(d)					
 □ Acknowledgment is made of a claim for foreign priority und □ All □ Some* □ None of the CERTIFIED copies of th □ received. □ received in Application No. (Series Code/Serial Number 	ne priority documents ha	ave been			
☐ received in Application No. (Series Code/Serial Number	•				
*Certified copies not received:	7.				
Attachment(s)		· ·			
Information Disclosure Statement(s), PTO-1449, Paper No	o(s) 🖂 l	nterview Summary, PTO-413			
□ Notice of References Cited, PTO-892	Notice of Informal Patent Application, PT	O-152			
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948		Other			
·	Action Summan				

U. S. Patent and Trademark Office PTO-326 (Rev. 3-97)

Part of Paper No.__

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CLAIMS

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3, 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Namiki (JP 4-355642).

Regarding claim 1, Namiki shows a vibrator comprising:

A stator (2) formed of a permanent magnet (N, S) magnetized in an axial direction to have magnetic poles at a plurality of directions in a circumferential direction, the magnet (N, S) having a ring-like configuration;

A rotor (see 1) having an armature (see 1) located opposite to the to the magnet eccentrically fixed to the rotation shaft (3);

Current path formation means (4, 5) comprising a commutator (4-1, 4-2) and a brush (5) for supplying to the armature current whose polarity is substantially reversed along with the rotation of the rotor;

Wherein the armature (1) is provided with a first coil (1-2) and a separate second coil (1-1) arranged in such a manner that the spatial phase becomes equal to each other, and the current means (4-5) supplies the current to the first and second coils (1-2, 1-1,

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see English translation) respectively by making the electric phase different from each other (see fig. 1).

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Regarding claim 22, Namiki shows a vibrator comprising:

A rotor (see 1) is rotatably provided with respect to a stator (2) formed of a permanent magnet (N, S) magnetized in an axial direction to have magnetic poles at a plurality of directions in a circumferential direction, the magnet (N, S) having a ring-like configuration, the armature (see 1) located opposite to the magnet of the rotor is eccentrically fixed to the rotation shaft (see 3) and a current path for supplying to the armature current whose polarity is substantially reversed along with the rotation of the rotor is formed of current path formation means (4-5) comprising a commutator (4-1, 4-2) and a brush (5), the structure comprising a first coil (1-2) and a separate second coil (1-1) arranged so that the spatial phase becomes equal to each other,

Wherein the current supplied to the first and second coils (1-2, 1-1) respectively by making different the electric phase with the current path formation means (fig. 1).

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 4-21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Namiki in view of Taketoshi (JP 10336983).

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Regarding claims 4 and 11, Namiki shows the first and second coils (1-2, 1-1).

Namiki differs from the claimed invention in that it does not show a third coil and a position regulation pin.

However, it is commonly seen that vibrator could have three coils, this is shown by Taketoshi (coils 6a-6c in fig. 12). Taketoshi further shows a position regulation pin (20). Hence, it would have been obvious for one skilled in the art to modify Namiki with a different number of coils as taught by Taketoshi, this simply can be considered as a design preference and a variation of Namiki, because more coils would create electrical phases which would vibrate in a different patterns, however, the basic concept of the vibrator is substantially unchanged.

Regarding claims 2-21, 23, the combination of Namiki and Taketoshi shows:

The second coil is inside the first coil (1-1, 1-2 in Namiki);

The four magnetic poles (see N, S);

The size of the coils (1-1, 1-2) are coaxially wound to cover one to two magnetic poles (see fig. 1), and one end of the coils are commonly connected (see English translation); The commutator (4-1, 4-2) is attached on the rotor (see 1), and its connection with the coils (1-1, 1-2);

A weight (the weight of 1) and the coils (1-1, 1-2);

The two brushes (5 in Mamiki; 9 in Taketoshi) are attached on the stator (2 in Mamiki; 21 in Taketoshi), and have a spatial phase difference of 90° to the commutator (see Taketoshi);

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A third coil (fig. 12 in Taketoshi); and

A position regulation pin or a pin (20 in Taketoshi).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Chiang whose telephone number is 703-305-4728. The examiner can normally be reached on Mon.-Fri. from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar, can be reached on 703-305-4731. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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